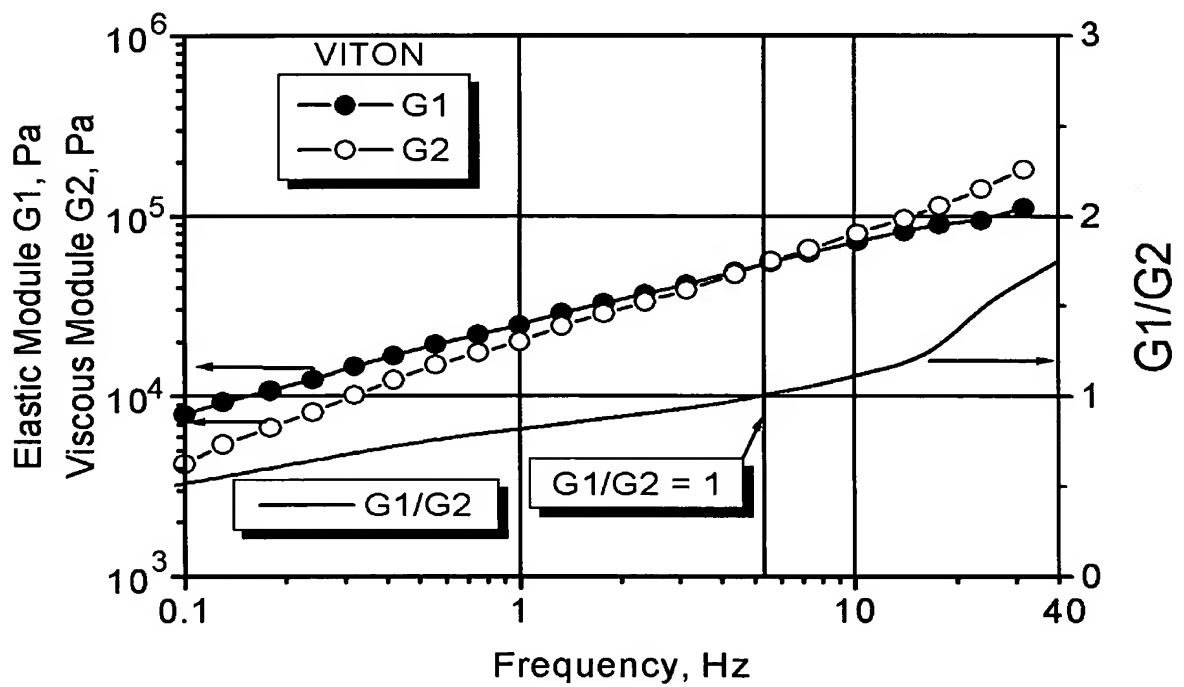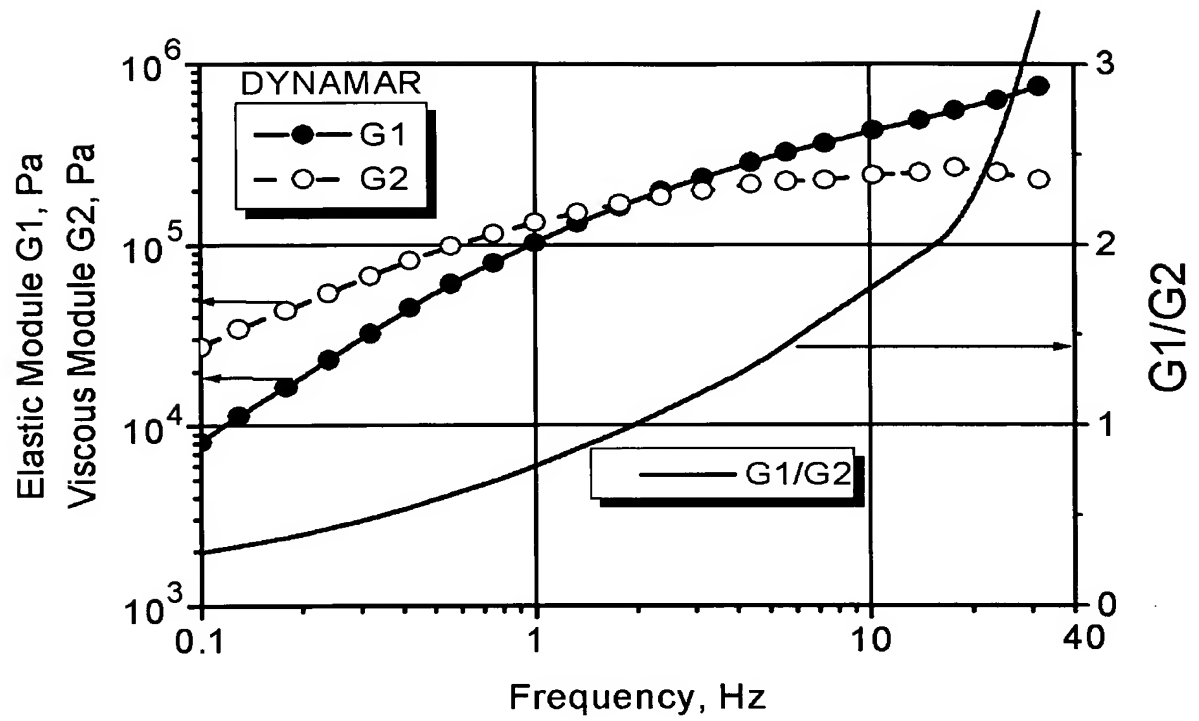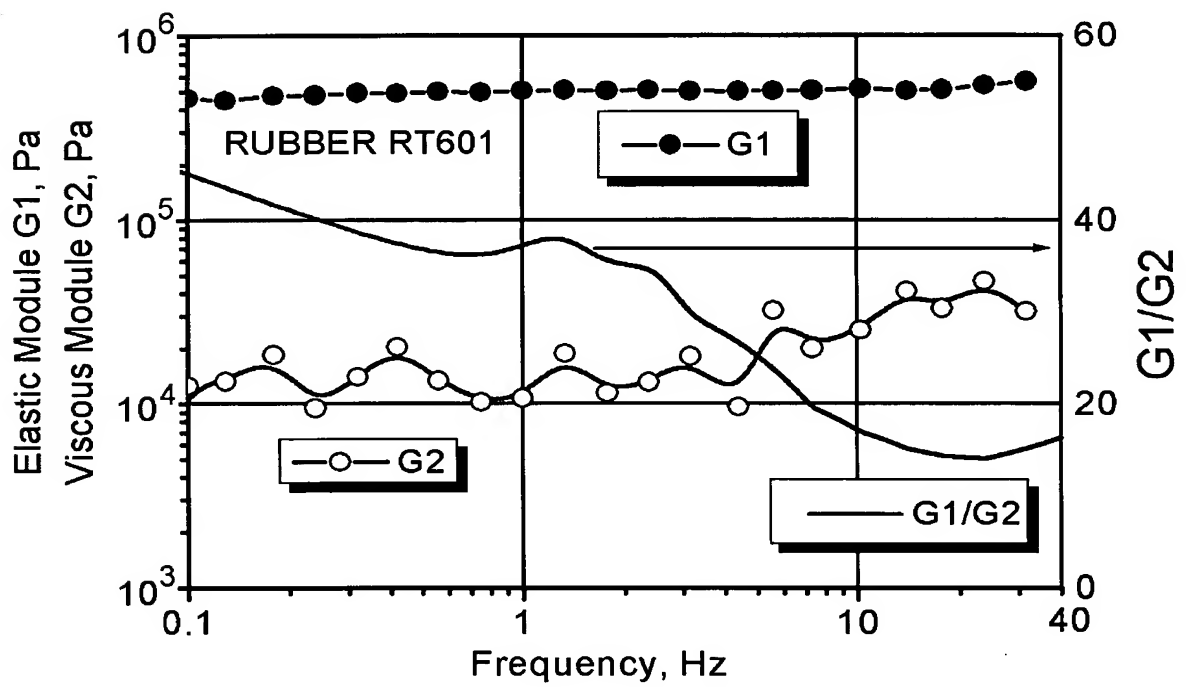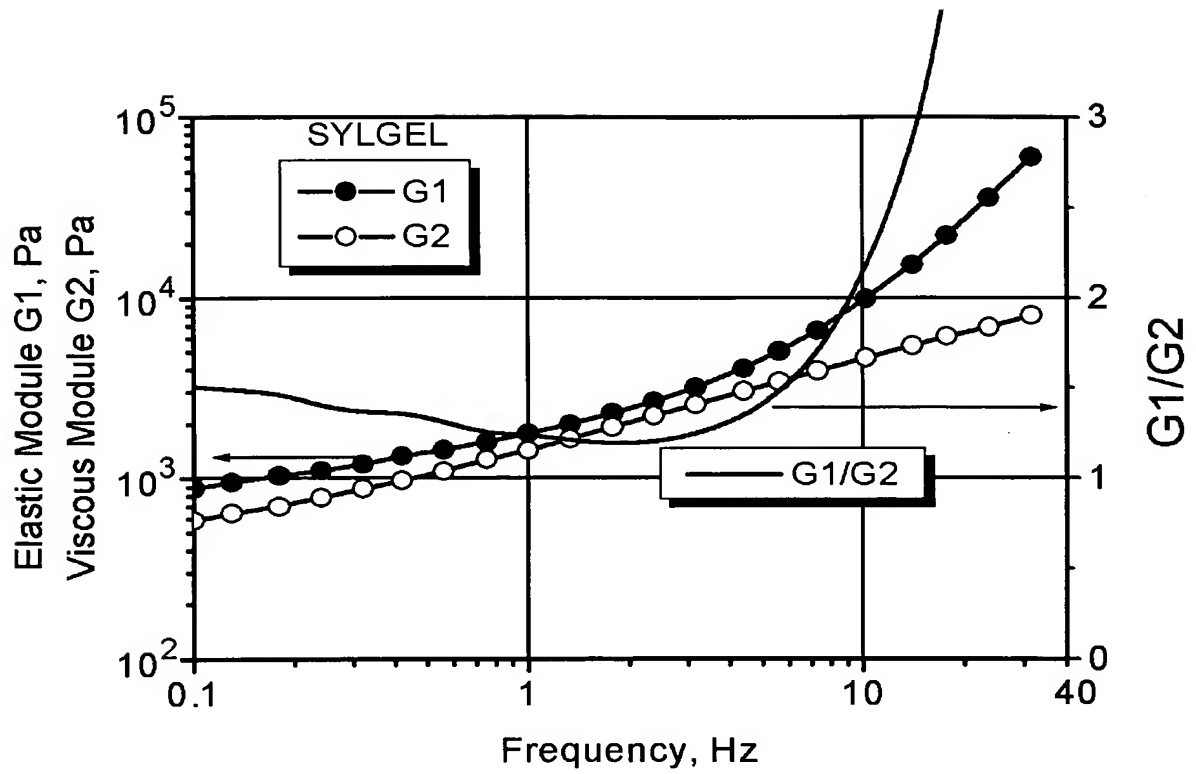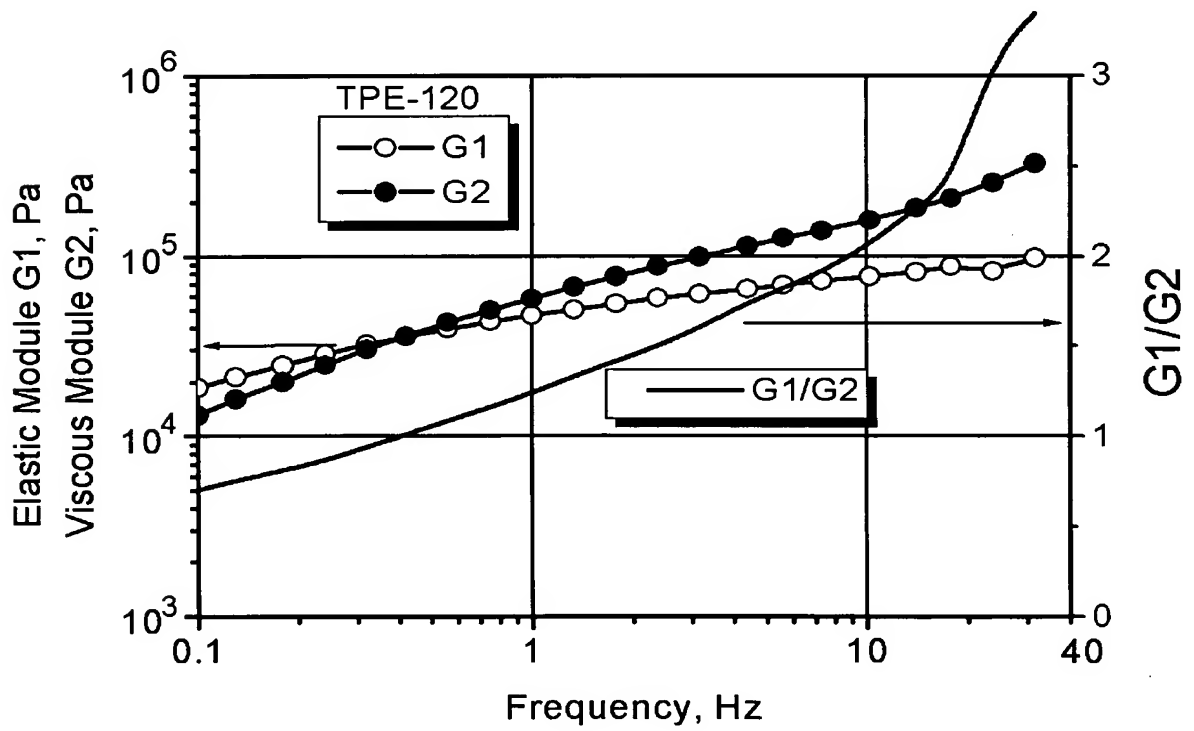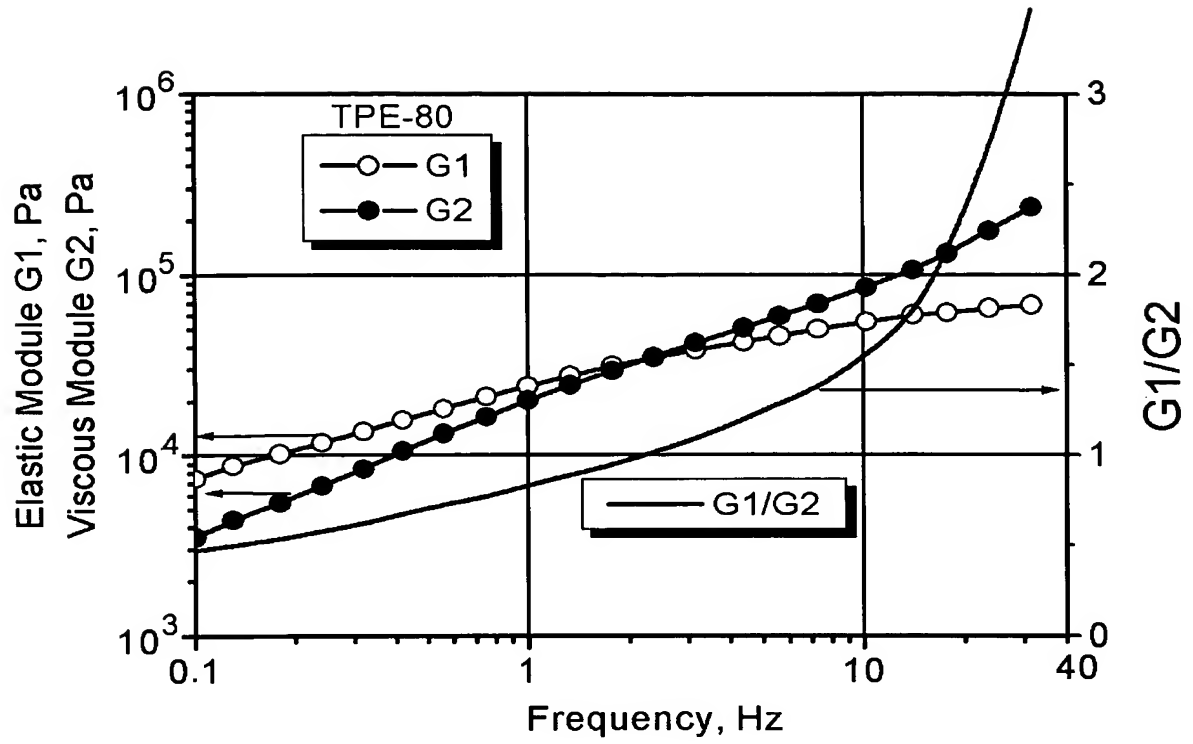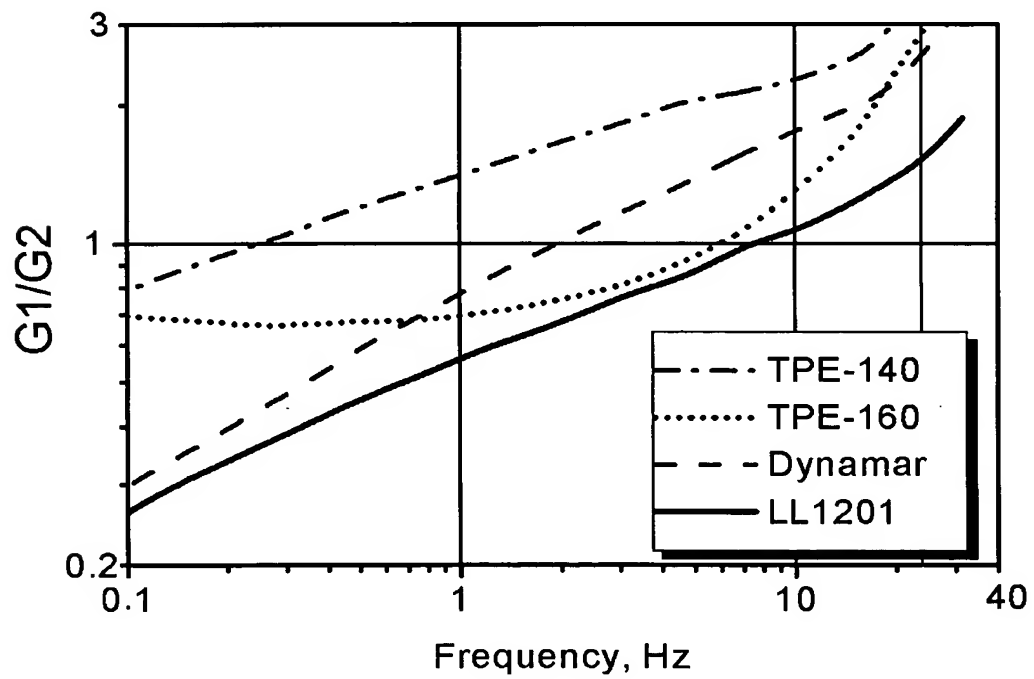Figure 1.

Figure 2.

Figure 3.

Figure 4.

Figure 5.

Figure 6.

Figure 7.

Figure 8.

Input

1

2

9

3

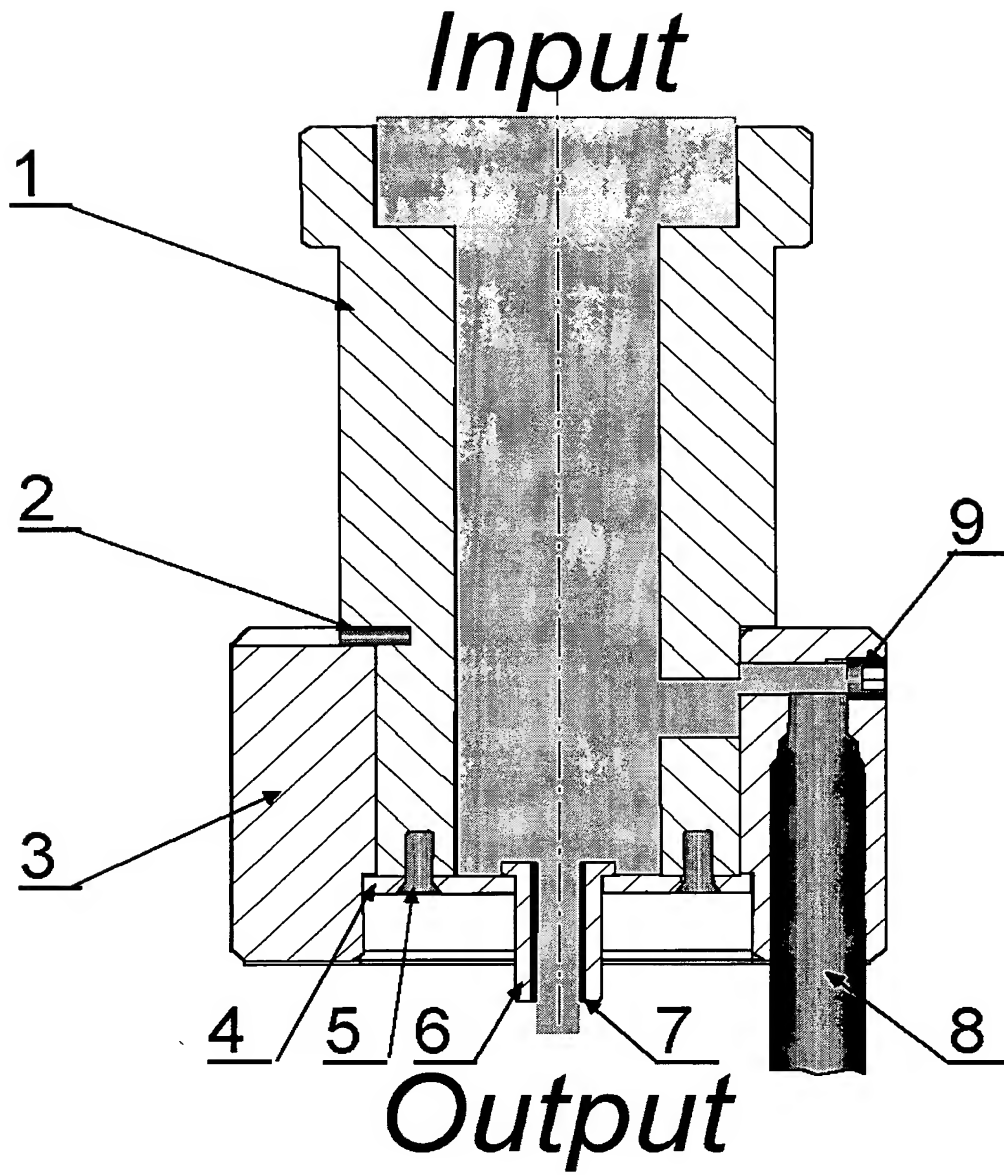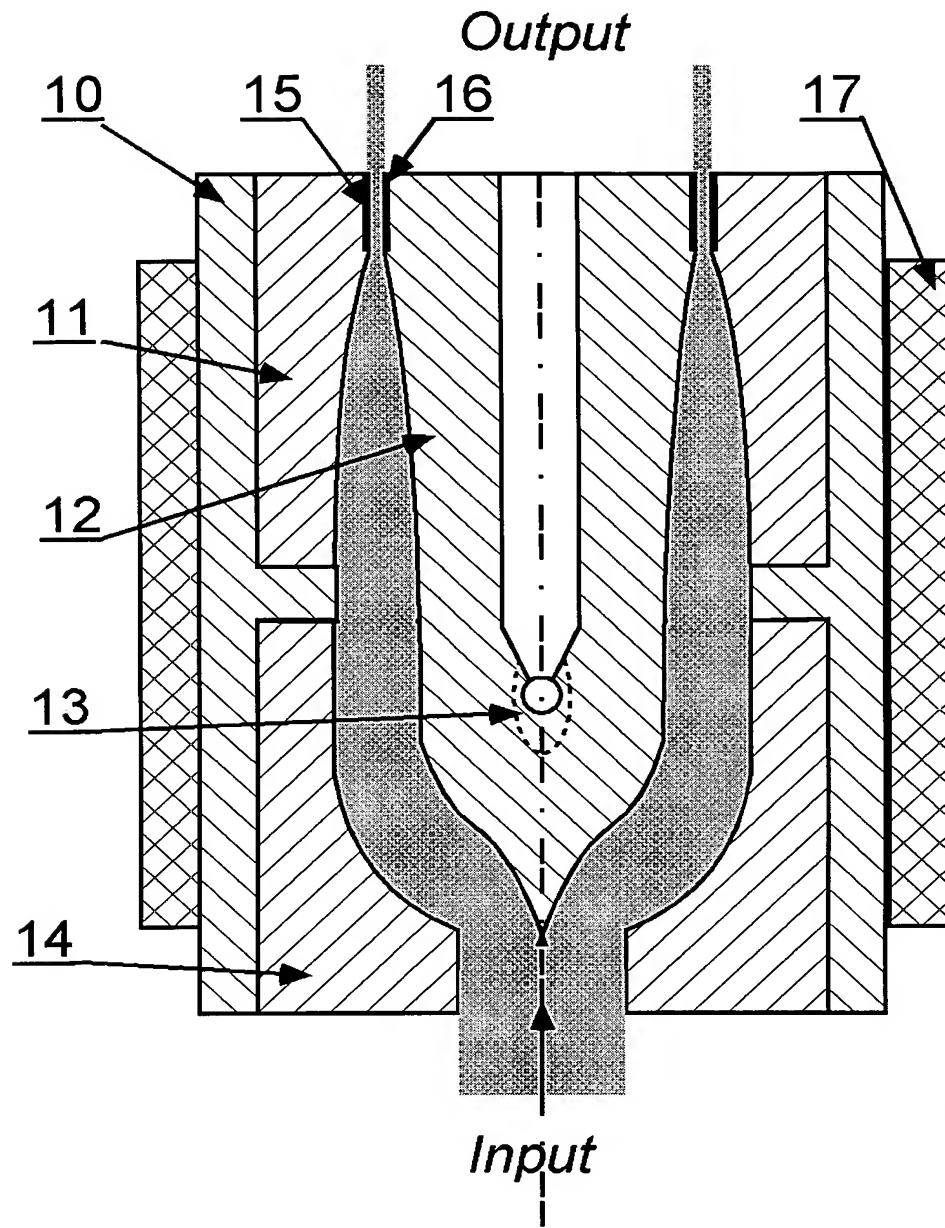4 5 6 7 8

Output

Figure 9.

Output

10   15   16   17

11

12

13

14

Input

Figure 10.

Figure 11.

Figure 12.